

SEQUENCE LISTING

(1) GENERAL INFORMATION:

5 (2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH:

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY:linear

10 (ii) MOLECULE TYPE: DNA (oligonucleotide)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

15 FR-patched RFB4

VH:

Full length cDNA sequence (SEQ ID no. 1):

20 GAAGTGCAGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGA  
GGGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTTCAGTAT  
CTATGACATGTCTGGGTTCGCCAGGCACCGGAAAGGGGCTGGA  
GTGGGTCGCATACATTAGTAGTGGTGGTGGTACCACTACTATCCA  
GACACTGTGAAGGGCGATTCAACCATCTCCAGAGACAATGCCAAG  
AACTCCCTGTACCTGCAAATGAACAGTCTGAGGGTGGAGGACACA  
25 GCCTTATATTACTGTCAAGACATAGTGGCTACGGTAGTGTACG  
GGGTTTGTGTTGCTTACTGGGCCAAGGGACTCTGGTCACTGTCTCT  
TCA

30 Full length amino acid sequence (SEQ ID no. 2):  
EVQLLESGGGLVQPGGSLRLSCAASGFSFSIYDMSWVRQAPGKGLEW  
VAYISSLGGTTTYPDTVKGRFTISRDNAKNSLYLQMNSLRVEDTALYY  
CARHSGYGYSSYGVLFAYWGQGTLVTVSS

35 N-terminal sense strand template DNA sequence (SEQ ID no. 3):  
CCTGGAGGGTCCCTGAGGCTCTCCTGTGCAGCCTCTGGATTCTCCTT  
CAGTATCTATGACATGTCTGGGTTGCCAGGCACCGGAAAGGGG  
CTGGAGTGGTCGCATAC

40 5' Primer for N-template (SEQ ID no. 4)  
GAAGTGCAGCTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGA  
GGGTCCCTGAGG

45 3' Primer for N-template (SEQ ID no. 5)  
GTAGGTGGTACCCACCACTAAATGTATGCGACCCACTCCAGC  
CC

C-terminal sense strand template DNA sequence (SEQ ID no. 6):

1 TTCACCATCTCCAGAGACAATGCCAAGAACTCCCTGTACCTGCAAA  
2 TGAAACAGTCTGAGGGTGGAGGACACAGCCTATATTACTGTGCAAG  
3 ACATAGTGGCTACGGTAGTAGCTACGGGTTTGCT

5 5' Primer for C-template (SEQ ID no. 7)  
6 GGTGGTACCACCTACTATCCAGACACTGTGAAGGGCCGATTACCA  
7 TCTCCAGAGACAAT

10 3' Primer for C-template (SEQ ID no. 8)  
11 TGAAGAGACAGTGACCAGAGTCCCTGGCCCCAGTAAGCAAACAA  
12 AACCCCGTAGCT

15 Joining site: KpnI  
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20 VK:  
21 Full length cDNA sequence (SEQ ID no. 9)  
22 GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG  
23 AGACAGAGTCACCATTAGTTGCAGGGCAAGTCAGGACATTAGCAA  
24 TTATTTAAACTGGTATCAGCAGAAACCAGGTAAGGCTCCGAAACTC  
25 CTGATCTACTACACTAGTATATTACACTCAGGAGTCCCATCAAGGT  
TCAGTGGCAGTGGGTCTGGAACAGAATTACTCTCACCATTAGCTC  
CCTGCAGCCAGAAGATTGCCACTTACTTTGCCAACAGGGTAAT  
ACGCTTCCGTGGACGTTCGGTGGAGGCACCAAGGTGGAAATCAA  
26

30 Full length amino acid sequence (SEQ ID no. 10)  
31 DIQMTQSPSSLSASVGDRVTLSCRASQDISNYLNWYQQKPGKAPKLLIY  
32 YTSILHSGVPSRFSGSGSGTEFTLTISLQPEDFATYFCQQGNTLPWTFG  
33 GGTKVEIK  
34

35 N-terminal sense strand template DNA sequence (SEQ ID no. 11)  
36 CTGTCTGCCTCTGTGGGAGACAGAGTCACCATTAGTTGCAGGGCAA  
37 GTCAGGACATTAGCAATTATTAACTGGTATCAGCAGAAACCAGG  
38 TAAGGCTCCGAAACTC  
39

40 5' Primer for N template (SEQ ID no. 12)  
41 GATATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCTCTGTGGG  
42 AGAC  
43

45 3' Primer for N-template (SEQ ID no. 13)  
46 ATATAACTAGTGTAGATCAGGAGTTCGGAGCCTTACC  
47

50 C-terminal sense strand template DNA sequence (SEQ ID no. 14)  
51 CCATCAAGGTTCAGTGGCAGTGGGTCTGGAACAGAATTACTCTCA  
52 CCATTAGCTCCCTGCAGCCAGAAGATTGCCACTTACTTTGCCAA  
53 CAGGGTAATACGCTTCCGTGGACGTT  
54

55 5' Primer for C-template (SEQ ID no. 15)  
56 CTACACTAGTTATATTACACTCAGGAGTCCCATCAAGGTTAGTGGC  
57 AGT

3' Primer for C-template (SEQ ID no. 16)  
TTTGATTCCACCTGGTGCCTCCACCGAACGTCCACGGAAGCGTA  
TT

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Joining site: SpeI A<sup>V</sup>CTAG<sub>A</sub>T

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FR-Patched chimeric 1F5  
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VH:

15 Full length cDNA sequence (SEQ ID no. 17):  
CAGGTGCAACTGGTGGCTTCCGGGGCTGAGGTAAATAAGCCTGGG  
GCCTCAGTGAAGGTCTCCTGCAAGGCTTCTGGCTACACATTACCA  
GTTACAATATGCACTGGGTACGGCAGCCTCCTGGAAGGGGCCTGGA  
ATGGATTGGAGCTATTATCCAGGAAATGGTGTAACTAGTTACAAT  
CAGAAATTCAAGGGCAAGGCCACATTGACTGCAGACAAATCCTCC  
20 AGCACAGCCTACATGCAGCTCAGCAGTCTGACATCTGAGGACTCTG  
CGGTCTATTACTGTGCAAGATCGCACTACGGTAGTAACGTAGA  
CTACTTGACTACTGGGGCCAAGGCACCACTGTTACAGTCTCCTCT  
GATCA

25 Full-length amino acid sequence (SEQ ID no. 18):  
QVQLVASGAEVNKPGASVKVSCKASGYTFTSYNMHWVRQPPGRGLE  
WIGAIYPNGDTSYNQFKKGKATLTADKSSSTAYMQLSSLTSEDSAVY  
YCARSHYGSNYVDYFDYWGQGTTVTVSSD

30 N-terminal sense strand template DNA sequence (SEQ ID no. 19):  
AATAAGCCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCTGGCT  
ACACATTACAGTTACAATATGCACTGGGTACGGCAGCCTCCTGG  
AAGGGGCCTGGAATGGATTGGA

35 5' Primer for N-template (SEQ ID no. 20)  
CAGGTGCAACTGGTGGCTTCCGGGGCTGAGGTAAATAAGCCTGGG  
GCCTCAGTGAAG

40 3' Primer for N-template (SEQ ID no. 21)  
TGTAACTAGTTATCACCATTCTGGATAAAATAGCTCCAATCCATTCC  
AGGCCCT

45 C-terminal sense strand template DNA sequence (SEQ ID no. 22):  
TTGACTGCAGACAAATCCTCCAGCACAGCCTACATGCAGCTCAGCA  
GTCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCGCA  
CTACGGTAGTAACTACGTAGACTACTTGACTAC

50 5' Primer for C-template (SEQ ID no. 23)  
TGATACTAGTTTACAATCAGAAATTCAAGGGCAAGGCCACATTGACT  
GCAGACAAATCCTCC

3' Primer for C-template (SEQ ID no. 24)  
TGATCAGAGGAGACTGTAACAGTGGTGCCTGGCCCCAGTAGTCAA  
AGTAGTCTACGTA

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Joining site: *Spe*I

VK:

10 Full-length cDNA sequence (SEQ ID no. 25):  
GATATTCAACTCACACAGTCTCCATCAAGTCTTCTGCATCTGTGGG  
GGACAGAGTCACAATTACTTGCAGGGCCAGCTCAAGTTAAGTTTC  
ATGCACTGGTACCAGCAGAAGCCAGGATCCTCCCCAAACCCCTGGA  
TTTATGCCACATCCAACCTGGCTTCCGGAGTCCCTAGTCGCTTCAGT  
15 GGCAGTGGGTCTGGGACCGAGTTCACTCTCACAATCAGCAGTTGC  
AGCCTGAAGATTTCGCCACTTATTCTGCCATCAGTGGAGTAGTAA  
CCCGCTCACGTTGGTGTGGACCAAGCTGACCCTACGG

20 Full-length amino acid sequence (SEQ ID no. 26):  
DIQLTQSPSSLSASVGDRVTITCRASSLSFMHWYQQKPGSSPKPWIYA  
TSNLASGVPSRFSGSGSGTEFTLTISLQPEDFATYFCHQWSSNPLTFGA  
GTKLTVLR

25 N-terminal sense strand template DNA sequence (SEQ ID no. 27):  
TCAAGTCTTCTGCATCTGTGGGGACAGAGTCACAATTACTGCA  
GGGCCAGCTCAAGTTAAGTTCATGCACTGGTACCCAGCAGAAGCC  
AGGATCCTCCCCAAACCCCTGGATTATGCCACATCC

30 5' Primer for N-template (SEQ ID no. 28):  
GATATTCAACTCACACAGTCTCCATCAAGTCTTCTGCATCTGTG

3' Primer for N-template (SEQ ID no. 29):  
GGACTCCGGAAGCCAGGTTGGATGTGGCATAAATCCAGGG

35 C-terminal sense strand template DNA sequence (SEQ ID no. 30):  
TTCAGTGGCAGTGGGTCTGGGACCGAGTTCACTCTCACAAATCAGCA  
GTTTGCAGCCTGAAGATTTCGCCACTTATTCTGCCATCAGTGGAGT  
AGTAACCCGCTCACGTTGGTGTGG

40 5' Primer for C-template (SEQ ID no. 31):  
GGCTTCCGGAGTCCCTAGTCGCTTCAGTGGCAGTGGGTCTGGG

3' Primer for C-template (SEQ ID no. 32):  
CCGTAGAACGGTCAGCTTGGTCCCAGCACCGAACGTGAGCGG

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Joining site: *Bsp*EI